

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A ~~Drug~~drug release system comprising a shape memory material (SMP-material) and at least one drug, wherein the shape memory effect is used to vary the drug release rate.
2. (canceled).
3. (currently amended): The ~~Drug~~drug release system according to claim 1, wherein the SMP-material is biodegradable.
4. (canceled).
5. (currently amended): The ~~Drug~~drug release system according to claim 1, wherein the drug release system is a minimally invasive implantable device.
6. (currently amended): The ~~Drug~~drug release system according to claim 1, wherein the shape memory effect is triggered by a change in temperature, light, or a combination thereof.
7. (currently amended): The Drug release system of claim 1A drug release system comprising a shape memory material (SMP-material) and at least one drug, wherein the drug

release system comprises a matrix system, wherein the at least one drug is dispersed within the matrix.

8. (currently amended) ~~Drug~~ The drug release system according to claim 7, wherein the drug release system displays a change of the drug release rate after triggering of the shape memory effect.

9. (currently amended): The ~~Drug~~ drug release system according to claim 7, wherein the SMP-material comprises units derived from monomers selected from the group consisting of caprolactone, lactide, glycolide and dioxanone.

10. (currently amended): The ~~Drug~~ drug release system according to 7, wherein the drug release system comprises a coating, for modification of the release properties or tissue compatibility.

11. (currently amended): The ~~Drug~~ drug release system according to claim 7, wherein the drug release system is a laminate comprising at least one drug containing film made from a SMP-material laminated on both surfaces with films not containing a drug.

12. (currently amended): ~~The Drug release system according to claim 1A drug release system comprising a shape memory material (SMP-material) and at least one drug,~~ wherein the drug release system comprises a reservoir ~~of for receiving the drug,~~ and a coating and/or membrane closing the reservoir made from ~~a~~an SMP-material.

13. (currently amended) ~~Drug~~ The drug release system according to claim 12, wherein the SMP-material, after triggering of the shape memory effect, controls the rate of release of the drug.

14. (currently amended): ~~The Drug release system according to claim 1~~ A drug release system comprising a shape memory material (SMP-material) and at least one drug, wherein the drug release system comprises a reservoir for the drug made from a SMP-material, and a coating or membrane.

15. (currently amended): ~~The Drug~~ drug release system according to claim 14, wherein the shape memory effect induces a change in shape of the reservoir, leading to a variation of the permeability of the coating or membrane with respect to the drug.

16. (currently amended): ~~The Drug~~ drug release system according to claim 1, wherein the hydrolytic degradation of the shape memory material controls the drug release.

17. (cancelled).

18. (currently amended): ~~The Drug~~ drug release system according to claim 1, wherein the drug release system is provided in the form of a coating on an implant.

19. (currently amended): The ~~Drug~~drug release system according to claim 1, wherein the drug release system is present in the form selected from the group consisting of nanoparticles, micro-particles, films, threads, and compositions for transdermal drug administration.

20. (canceled).

21. (canceled).

22. (canceled).

23. (cancelled).